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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/081,437	02/21/2002	Katsumi Oishi	SONYJP 3.0-241	1006
	7590 01/21/201 /ID, LITTENBERG,	EXAMINER		
KRUMHOLZ &	& MENTLIK		CHOWDHURY, SUMAIYA A	
600 SOUTH AVENUE WEST WESTFIELD, NJ 07090			ART UNIT	PAPER NUMBER
			2421	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/081,437	OISHI, KATSUMI			
Office Action Summary	Examiner	Art Unit			
	SUMAIYA A. CHOWDHURY	2421			
The MAILING DATE of this communication ap	pears on the cover sheet with the	correspondence address			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO EXPIRE <u>3</u> MONTH	I(S) OR THIRTY (30) DAYS,			
 WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). 	136(a). In no event, however, may a reply be t will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDON	imely filed m the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>06 ∧</u>	lovember 2009.				
2a) This action is FINAL . 2b) This	<u>-</u>				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application	1.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-14</u> is/are rejected.					
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	or alastian requirement				
o) Claim(s) are subject to restriction and/c	or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
		, talien en tellin 176 16 2 1			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1.☐ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) ☐ Interview Summar Paper No(s)/Mail [
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal 6) Other:				

Application/Control Number: 10/081,437 Page 2

Art Unit: 2421

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection.
 Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/9/09 has been entered.

Response to Arguments

- Applicant's arguments with respect to claims 1-14 have been considered but are moot in view of the new ground(s) of rejection.
- (a) Applicant argues that none of the cited references teach the newly added limitation that the packets in the redistribution signal are the same format as the packets in the received signal.

The Examiner disagrees. Hendricks teaches that the signal received at the headend is the same format as the signal transmitted to the STBs from the headend. In particular, Hendricks teaches that the format of the received signal and the format of the redistributed signal is MPEG (Col. 6, lines 44-54).

(b) Applicant argues that none of the cited references teach the newly amended limitations.

The Examiner has brought in Ohishi (6487720) to teach the newly amended limitations. Ohishi teaches entitlement control message (ECM) packets

which are encrypted messages used to prevent unauthorized reception for such services as cable or satellite television such that only authorized receivers can decrypt the video signal. Referring to fig. 1, signal processing unit 101a receives television signal from a server and then processes the signals by inserting ECM packets into the signal and then redistributing the signal to receivers via the multiplexing unit. The ECM packets in the redistribution signal correspond to the packets in the signal received by signal processing unit 101a (col. 2, lines 19-27, col. 15, lines 7-19).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-3, 5-9, and 11-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hendricks (5659350) in view of Tsukakoshi (5086426) and Ohishi (6487720).

As for claims 1, 5, and 6, Hendricks teaches a transmission device (cable headend 208), comprising:

Art Unit: 2421

a receiving unit (satellite receiver dish) operable to receive a digital signal distributed from a prescribed distribution device (operations center 202) – col. 6, lines 3-18, col. 8, lines 58-62;

a first generating unit operable to set identification information corresponding to a reception device (set top terminals 220) and reception control information for controlling the reception operation of the reception device in an area secured in advance in a format of composite information, thereby generating composite information; and a second generating unit operable to compose a predetermined number of digital signals on the basis of the composite information to generate redistribution digital signals containing the composite information (The cable head receives a multiplexed (composite) digital signal from the operations center. The cable headend prepares the control and programming signals for transmission to each set top terminal 220. The headend sends the control and programming signals to the set top terminals in the geographic area it is located. Based on the address set by the headend, the signal is routed to the corresponding set top terminal in its area. — col. 9, lines 18-28);

a transmitter (transmitter in headend) operable to transmit the redistribution digital signals to the reception device, and wherein the redistribution digital signals are formed on the basis of the received digital signal – col. 9, lines 18-28, col. 10, lines 45-46; and

wherein the packets of the redistribution signal have the same format of the received signal (Hendricks teaches that both the incoming and outgoing

Art Unit: 2421

stream are MPEG streams, hence both streams have the same format. Col. 6, lines 44-54).

However, Hendricks fails to teach:

The received digital signal is made up of packets, the packets include a predefined area in which data can be written, and the formation of the redistribution signals includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the predefined area, the writing of information identifying the reception device and the writing of reception control information for the reception device being performed on a frame-by-frame basis;

the redistribution signal is formed based on the packets of the received signal and frame transport packets which are not part of the received signal, the frame transport packets including an area in which data can be written;

the reception control information written in the frame transport packet corresponds to the transport packets associated with the frame transport packets.

In an analogous art, Tsukakoshi teaches

The received digital signal is made up of packets, the packets include a predefined area in which data can be written, and the formation of the redistribution signals includes writing information (destination address field 13) identifying the reception device in the predefined area (terminal 7C) and writing reception control information (control code field) for the reception device in the predefined area, the writing of information identifying the reception device and

Art Unit: 2421

the writing of reception control information for the reception device being performed on a frame-by-frame basis (col. 6, lines 35-44; Fig. 7A).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Hendricks's invention to include the above mentioned limitation, as taught by Tsukakoshi, for the advantage of h providing an effective method in which only authorized devices will receive the stream.

However, Hendricks and Tsukakoshi fail to teach:

the redistribution signal is formed based on the packets of the received signal and frame transport packets which are not part of the received signal, the frame transport packets including an area in which data can be written;

the reception control information written in the frame transport packet corresponds to the transport packets associated with the frame transport packets.

In an analogous art, Ohishi discloses entitlement control message (ECM) packets which are encrypted messages used to prevent unauthorized reception for such services as cable or satellite television such that only authorized receivers can decrypt the video signal. Referring to fig. 1, signal processing unit 101a receives television signal from a server and then processes the signals by inserting ECM packets into the signal and then redistributing the signal to receivers via the multiplexing unit. The ECM packets in the redistribution signal correspond to the packets in the signal received by signal processing unit 101a (col. 2, lines 19-27, col. 15, lines 7-19).

Art Unit: 2421

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Hendricks and Tsukakoshi's invention to include the above mentioned limitation, as taught by Ohishi, for the advantage of ensuring that only authorized receivers receive content.

As for claim 2, Hendricks teaches wherein the reception control information is set to control the reception operation for every digital signal for redistribution in the reception device (Each time the headend receives a digital broadcast signal, it distributes it to the plural set top terminals - col. 9, lines 18-28, col. 10, lines 45-46).

As for claims 3 and 9, Hendricks teaches wherein the first generating unit generates the composite information every time a digital signal for redistribution is received by the reception device or so that the composite information is achieved by the reception device when the composite information is renewed (Each time the headend receives a digital broadcast signal with the programming and control information, it generates multiple streams to be distributed to the plural set top terminals—col. 9, lines 18-28, col. 10, lines 45-46).

Claim 7 includes the limitations of claim 1 and is analyzed as previously discussed with respect to claim 1. Claim 7 additionally calls for the following:

Art Unit: 2421

a processor (209 – fig. 3) for executing instructions; and instructions, the instructions including the steps to perform the method as recited in claim 1 (col. 9, lines 18-28).

As for claims 8, 12, and 13, Hendricks teaches a reception device, comprising:

a storage unit (set top terminal) operable to store identification information corresponding to the reception device – col. 9, lines 18-28;

a receiver (set top terminal) operable to receive a redistribution digital signal containing composite information transmitted from a transmission device (headend) – col. 9, lines 18-28, col. 10, lines 45-46;

an achieving unit operable to achieve reception control information corresponding to the identification information stored in the storage unit from an area secured in advance in a format of the composite information – col. 6, lines 3-18, col. 8, lines 58-62, col. 9, lines 18-28;

an extracting unit operable to extract a desired digital signal from the redistribution digital signal by using the composite information—col. 6, lines 3-18, col. 8, lines 58-62, col. 9, lines 18-28; and

a processor operable to process the desired digital signal on the basis of the reception control information - col. 9, lines 18-28.

wherein the packets of the redistribution signal have the same format of the received signal (Hendricks teaches that both the incoming and outgoing

Art Unit: 2421

stream are MPEG streams, hence both streams have the same format. Col. 6, lines 44-54).

However, Hendricks fails to teach:

The received digital signal is made up of packets, the packets include a predefined area in which data can be written, and the formation of the redistribution signals includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the predefined area, the writing of information identifying the reception device and the writing of reception control information for the reception device being performed on a frame-by-frame basis.

the redistribution signal is formed based on the packets of the received signal and frame transport packets which are not part of the received signal, the frame transport packets including an area in which data can be written;

the reception control information written in the frame transport packet corresponds to the transport packets associated with the frame transport packets.

In an analogous art, Tsukakoshi teaches

The received digital signal is made up of packets, the packets include a predefined area in which data can be written, and the formation of the redistribution signals includes writing information (destination address field 13) identifying the reception device in the predefined area (terminal 7C) and writing reception control information (control code field) for the reception device in the predefined area, the writing of information identifying the reception device and

the writing of reception control information for the reception device being performed on a frame-by-frame basis (col. 6, lines 35-44; Fig. 7A).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Hendricks's invention to include the above mentioned limitation, as taught by Tsukakoshi, for the advantage of h providing an effective method in which only authorized devices will receive the stream.

However, Hendricks and Tsukakoshi fail to teach:

the redistribution signal is formed based on the packets of the received signal and frame transport packets which are not part of the received signal, the frame transport packets including an area in which data can be written;

the reception control information written in the frame transport packet corresponds to the transport packets associated with the frame transport packets.

In an analogous art, Ohishi discloses entitlement control message (ECM) packets which are encrypted messages used to prevent unauthorized reception for such services as cable or satellite television such that only authorized receivers can decrypt the video signal. Referring to fig. 1, signal processing unit 101a receives television signal from a server and then processes the signals by inserting ECM packets into the signal and then redistributing the signal to receivers via the multiplexing unit. The ECM packets in the redistribution signal correspond to the packets in the signal received by signal processing unit 101a (col. 2, lines 19-27, col. 15, lines 7-19).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Hendricks and Tsukakoshi's invention to include the above mentioned limitation, as taught by Ohishi, for the advantage of ensuring that only authorized receivers receive content.

As for claim 11, Hendricks teaches wherein the achieving unit achieves the reception control information separately from the reception of the redistribution digital signal in the receiver (Hendricks teaches first the control signals are received to generate menu templates – col. 11, lines 5-15. The user selects which program to view from the menu, causing the transmission of the programming to the user – col. 11, lines 33-40).

Claim 14 contains the limitations of claims 7 and 8 and is analyzed as previously discussed with respect to those claims.

 Claims 4 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hendricks, Tsukakoshi, and Ohishi as applied to claim 3 and 9 respectively above, and further in view of Arai (6751401).

As for claims 4 and 10, Hendricks fails to teach wherein the renewal of the composite information is recognized on the basis of version information of the composite information.

In an analogous art, Arai teaches the renewal of information is recognized by the version number – col. 11, lines 5-17.

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Hendricks' and Tsukakoshi's invention to include the above mentioned limitation, as taught by Arai, in order to notify the receiver that the content has been updated.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SUMAIYA A. CHOWDHURY whose telephone number is (571)272-8567. The examiner can normally be reached on Mon-Fri, 9-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on (571) 272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/081,437 Page 13

Art Unit: 2421

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/John W. Miller/ Supervisory Patent Examiner, Art Unit 2421

/Sumaiya A Chowdhury/ Examiner, Art Unit 2421